Attorney Docket No.: 052496

Application No.: 10/533,655

AMENDMENTS TO THE CLAIMS

The listing of claims below replaces all prior versions of claims in the application.

1. (Currently Amended): An aluminum alloy-and-resin composite comprising:

a shaped aluminum alloy material that has been subjected to a dipping process in which it

is dipped in a 3 to 10% hydrazine monohydrate aqueous solution at 40 to 70°C, said shaped

aluminum alloy material having fine recesses with a diameter of 30 to 300 nm on the surface of

said shaped aluminum alloy material an aqueous solution of at least one selected from the group

consisting of ammonia, hydrazine, and a water-soluble amine compound; and

a thermoplastic resin composition integrally bonded to a surface of said shaped aluminum

alloy material by injection, said thermoplastic resin composition containing polyphenylene

sulfide as a component.

2. (Currently Amended): An aluminum alloy-and-resin composite comprising:

a shaped aluminum alloy material that has been subjected to a dipping process in which

after it has been dipped in a basic aqueous solution and/or an acid aqueous solution for

pretreatment, said shaped aluminum alloy material is dipped in a 3 to 10% hydrazine

monohydrate aqueous solution at 40 to 70°C, said shaped aluminum alloy material having fine

recesses with a diameter of 30 to 300 nm on the surface of said shaped aluminum alloy material

an aqueous solution of at least one selected from the group consisting of ammonia, hydrazine,

and a water-soluble amine compound; and

- 3 -

Attorney Docket No.: 052496

Application No.: 10/533,655

a thermoplastic resin composition integrally bonded to a surface of said shaped aluminum

alloy material, said thermoplastic resin composition containing polyphenylene sulfide as a

component.

3. (Cancelled)

4. (Cancelled)

(Currently Amended): A production method for an aluminum alloy-and-resin

composite, comprising the steps of:

dipping a shaped aluminum alloy material in a 3 to 10% hydrazine monohydrate aqueous

solution at 40 to 70°C to form fine recesses having a diameter of 30 to 300 nm on the surface of

said shaped aluminum alloy material an aqueous solution of at least one selected from the group

consisting of ammonia, hydrazine, and a water-soluble amine compound;

inserting said shaped aluminum alloy material into a mold; and

integrating a thermoplastic resin composition containing polyphenylene sulfide to a

surface of said shaped aluminum alloy material in said mold.

(Currently Amended): A production method for an aluminum alloy-and-resin

composite, comprising the steps of:

dipping a shaped aluminum alloy material in a basic aqueous solution and/or an acid

aqueous solution for pretreatment;

- 4 -

Attorney Docket No.: 052496

Application No.: 10/533,655

dipping said shaped aluminum alloy material after said pretreatment in a 3 to 10%

hydrazine monohydrate aqueous solution at 40 to 70°C to form fine recesses having a diameter

of 30 to 300 nm on the surface of said shaped aluminum alloy material an aqueous solution of at

least one selected from the group consisting of ammonia, hydrazine, and a water-soluble amine

compound;

inserting said shaped aluminum alloy material into a mold; and

integrating a thermoplastic resin composition containing polyphenylene sulfide to said

shaped aluminum alloy material in said mold.

7. (Cancelled):

8. (New): An aluminum alloy-and-resin composite according to claim 1, wherein said

shaped aluminum alloy material is dipped in the hydrazine monohydrate aqueous solution for

several minutes.

9. (New): An aluminum alloy-and-resin composite according to claim 2, wherein said

shaped aluminum alloy material is dipped in the hydrazine monohydrate aqueous solution for

several minutes.

10. (New): A production method for an aluminum alloy-and-resin composite according

to claim 5, wherein said step of dipping said shaped aluminum alloy material further comprises

- 5 -

Attorney Docket No.: 052496

Application No.: 10/533,655

dipping said shaped aluminum alloy material in the hydrazine monohydrate aqueous solution for

several minutes.

11. (New): A production method for an aluminum alloy-and-resin composite according

to claim 6, wherein said step of dipping said shaped aluminum alloy material after said

pretreatment further comprises dipping said shaped aluminum alloy material in the hydrazine

monohydrate aqueous solution for several minutes.

12. (New): An aluminum alloy-and-resin composite according to claim 1 or 2, wherein

said shaped aluminum alloy material is dipped in the hydrazine monohydrate aqueous solution at

50°C for two minutes.

13. (New): A production method for an aluminum alloy-and-resin composite according

to claim 6, wherein said step of dipping said shaped aluminum alloy material after said

pretreatment further comprises dipping shaped aluminum alloy material in the hydrazine

monohydrate aqueous solution at 50°C for two minutes.

- 6 -